

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P14066WO	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/SE 01/ 02651	International filing date (day/month/year) 29/11/2001	(Earliest) Priority Date (day/month/year) 01/12/2000
Applicant TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.
 It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
 - contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

3

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/SE 01/02651

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 69186 A (ERICSSON TELEFON AB L M) 16 November 2000 (2000-11-16) page 1, line 4 – line 9 page 2, line 10 – line 15 page 3, line 16 –page 5, line 9 page 7, line 7 – line 12 page 11, line 16 –page 12, line 7 page 21, line 3 – line 12 page 22, line 1 –page 23, line 24 figure 11B	1,14,27, 30-34,36
Y		2-4, 9-12, 15-17, 22-25, 28,29
A	---	5,13,18, 26,35

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

13 December 2002

Date of mailing of the international search report

19/12/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Vaskimo, K

INTERNATIONAL SEARCH REPORT

International Application No

PCT/SE 01/02651

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 999 717 A (CALY INC) 10 May 2000 (2000-05-10)	2-4, 9-12, 15-17, 22-25
A	page 2, paragraph 1 -page 4, paragraph 13 page 9, paragraph 61 -page 11, column 68	1,5,13, 14,18, 26,27, 32,33
	---	28
Y	US 5 598 417 A (CRISLER KENNETH J ET AL) 28 January 1997 (1997-01-28) column 1, line 9 - line 11 column 3, line 49 - line 67 column 6, line 31 -column 7, line 10 column 10, line 45 -column 11, line 6 figure 6	
A		1,14,27, 32,33
	---	29
Y	US 6 026 297 A (HAARTSEN JACOBUS CORNELIS) 15 February 2000 (2000-02-15) column 1, line 5 - line 30 column 2, line 37 - line 54 column 3, line 45 -column 4, line 61 column 5, line 53 - line 63 column 6, line 7 - line 25 column 7, line 6 - line 16	
A		1,14,27, 32,33

A	US 5 949 776 A (BUNTE ALAN G ET AL) 7 September 1999 (1999-09-07) column 2, line 1 - line 7 column 17, line 7 - line 47	1,14,27, 32,33

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/SE 01/02651

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0069186	A 16-11-2000	SE	514264 C2	29-01-2001
		AU	3994200 A	21-11-2000
		CN	1360795 T	24-07-2002
		EP	1175793 A1	30-01-2002
		WO	0069186 A1	16-11-2000
		SE	9901673 A	08-11-2000
EP 0999717	A 10-05-2000	BR	9913999 A	03-07-2001
		CN	1321381 T	07-11-2001
		EP	0999717 A2	10-05-2000
		EP	1123608 A1	16-08-2001
		JP	2002529017 T	03-09-2002
		WO	0025485 A1	04-05-2000
US 5598417	A 28-01-1997	NONE		
US 6026297	A 15-02-2000	AU	751671 B2	22-08-2002
		AU	9195098 A	05-04-1999
		BR	9812219 A	18-07-2000
		CN	1270726 T	18-10-2000
		EE	200000135 A	15-02-2001
		EP	1016242 A1	05-07-2000
		JP	2001517022 T	02-10-2001
		PL	339345 A1	18-12-2000
		WO	9914898 A1	25-03-1999
US 5949776	A 07-09-1999	US	5602854 A	11-02-1997
		US	5657317 A	12-08-1997
		US	5555276 A	10-09-1996
		US	5365546 A	15-11-1994
		US	5052020 A	24-09-1991
		AU	6987694 A	12-12-1994
		WO	9427382 A1	24-11-1994
		US	5790536 A	04-08-1998
		US	5696903 A	09-12-1997
		CA	2162722 A1	24-11-1994
		AU	696841 B2	17-09-1998
		AU	5986994 A	19-07-1994
		CA	2152598 A1	07-07-1994
		EP	0681762 A1	15-11-1995
		WO	9415413 A1	07-07-1994
		US	5673031 A	30-09-1997
		US	5708680 A	13-01-1998
		US	5844893 A	01-12-1998
		US	5940771 A	17-08-1999
		AU	700800 B2	14-01-1999
		AU	3145895 A	22-02-1996
		AU	715628 B2	03-02-2000
		AU	9815198 A	04-03-1999
		CA	2195661 A1	08-02-1996
		EP	0784893 A1	23-07-1997
		WO	9603823 A1	08-02-1996
		US	5726984 A	10-03-1998
		CA	2184811 A1	08-09-1995
		WO	9524074 A1	08-09-1995
		US	5912926 A	15-06-1999
		CA	2074169 A1	19-07-1991
		EP	0511295 A1	04-11-1992

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/SE 01/02651

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5949776	A	US 5331136 A	19-07-1994
		WO 9111065 A1	25-07-1991
		US 5680633 A	21-10-1997
		US 5567925 A	22-10-1996
		US 5679943 A	21-10-1997
		US 5949056 A	07-09-1999
		US 5218187 A	08-06-1993
		US 5313053 A	17-05-1994